Appl. No. 10/627,027
Amdt. dated April 5, 2010
Reply to Office Action of January 4, 2010

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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1. (Canceled)

2. (Previously Presented) The System as recited in Claim 13, wherein the matching program is further configured for comparing said remittance against a plurality of electronic invoices.

3. (Previously Presented) The System as recited in Claim 2, wherein said comparing comprises associating a sum of said plurality of electronic invoices closely to an amount corresponding to said remittance.

4. (Previously Presented) The System as recited in Claim 3 wherein said associating is performed by a process comprising a Knapsack heuristic.

5. (Previously Presented) The System as recited in Claim 13, wherein said remittance lines comprise a lockbox file.

6. (Previously Presented) The System as recited in Claim 13, wherein the matching program is further configured for calculating a weighted customer score, calculating a weighted transaction score, and determining a total weighted matching score based on said weighted customer score and said weighted transaction score.

7. (Previously Presented) The System as recited in Claim 13, wherein said determining a total match score comprises scoring strings and numbers.

8. (Previously Presented) The System as recited in Claim 7, wherein said scoring strings and numbers is performed by a process comprising a Levenshtein and Longest common substring fuzzy scoring heuristic.

9.   (Previously Presented) The System as recited in Claim 6, wherein said calculating a weighted transaction score comprises:

calculating a weighted transaction number score;

calculating a weighted transaction amount score; and

determining said weighted transaction score based on said weighted transaction number score and said weighted transaction amount score.

10.   (Previously Presented) The System as recited in Claim 6, wherein said calculating a weighted customer score comprises:

calculating a weighted customer name score;

calculating a weighted customer identity score;

calculating a weighted bank score; and

determining said weighted customer score based on said weighted customer name score, said weighted customer identity score, and said weighted bank score.

11.   (Previously Presented) The System as recited in Claim 10, wherein said calculating a weighted customer name score comprises:

calculating a weighted customer string score;

calculating a weighted customer acronym score; and

determining said weighted customer name score based on said weighted customer string score and said weighted customer acronym score.

12.   (Previously Presented) The System as recited in Claim 13, further comprising:

sending said match recommendation to a receipt application program interface;

assigning an informative header to a remittance for use by a receipt application;

where said match recommendation comprises an unmatched remittance, sending said match recommendation to an unmatched remittance notification initiator; and

initiating a workflow notification corresponding to said unmatched remittance.

13.   (Currently Amended) A computer based system for matching a remittance to a transaction, said system comprising:

a storage memory having sets of instructions stored thereon; and

a computer processor coupled with the storage memory, the computer processor configured to execute the sets of instructions, which cause the computer processor to perform the following method:

a matching program accessing, by a matching program, remittance lines of said remittance, a transaction information, and a matching rule, wherein said matching rule assigns a weight to a plurality of parameters considered in said matching program[[,]];

the matching program determining, by said matching program, for each parameter of the plurality of parameters, a score for a match between the remittance and the transaction for the parameter, wherein the score corresponds to a probability of an accurate match between the remittance and the transaction for the parameter determining[[,]];

using the matching rule[[,]] to assign a weight assigned to each of the parameters of the plurality of parameters[[,]];

computing a weighted matching score corresponding to a probability of an accurate match between said remittance and said transaction;, wherein the weighted matching score is computed based upon,

for each parameter of the plurality of parameters, determining that the weighted matching score is above a global matching scoring threshold, and;

in response to the weighted matching score being above the global matching score threshold, generating, using the assigned weight and the score for the parameter a match recommendation based on said weighted matching score;

implementing a graphical user interface operating with said matching program and comprising an interactive display for allowing a user input;, said graphical user interface for

generating, at said graphical user interface, [[a]] said matching rules, wherein each matching rule organizes a set of parameters into a tree structure according to significance of each of the parameters;

implementing a data staging program operating with said matching program;

[[for]]

accessing a database[[,]] and extracting a relevant transaction information form the database; ~~therefrom,~~

staging said relevant transaction information for use by said matching program;[[,]] and

providing said relevant transaction information to said matching program ~~thereto~~; and a post match handler for handling said match recommendation.

14.   (Currently Amended) The system as recited in Claim 13, wherein the computer processor is further configured to execute the sets of instructions, which cause the computer processor to perform the following method ~~further comprising~~:

implementing a receipt application program interface operating with said post match handler for providing said match recommendation to a receipt application; and

implementing a notification initiator operating with said post match handler for initiating a notification wherein said notification comprises a report that a match failed between said remittance and said transaction.

15.   (Canceled)

16.   (Previously Presented) A computer usable medium having stored therein a computer readable program code that, when executed, causes a computer system to execute a method of matching a remittance to a transaction, the program code including instructions that cause a processor of the computer system to perform the following tasks:

accessing remittance lines, transaction information, and a matching rule that assigns a weight to a plurality of parameters considered in said matching, wherein the matching rule organizes the parameters into a tree structure according to significance of each of the parameters;

for each parameter of the plurality of parameters, determining a score for a match between the remittance and the transaction for the parameter, wherein the score corresponds to a probability of an accurate match between the remittance and the transaction for the parameter;

determining, using the matching rule, a weight assigned to each of the parameters of the plurality of parameters;

computing a weighted matching score corresponding to a probability of an accurate match between said remittance and said transaction, wherein the weighted matching score is computed based upon, for each parameter of the plurality of parameters, the assigned weight and the score for the parameter;

determining that the weighted matching score is above a global matching scoring threshold; and

in response to the weighted matching score being above the global matching score threshold, generating a match recommendation based on said weighted matching score.

17.   (Previously Presented) The computer usable medium as recited in Claim 16 wherein the program code further comprises instructions that cause a processor of the computer system to perform the following tasks:

comparing said remittance against a plurality of invoices.

18.   (Original) The computer usable medium as recited in Claim 17 wherein said comparing comprises associating a sum of said plurality of invoices closely to an amount corresponding to said remittance.

19.   (Original) The computer usable medium as recited in Claim 18 wherein said associating is performed by a process comprising a Knapsack heuristic.

20.   (Original) The computer usable medium as recited in Claim 16 wherein said remittance lines comprise a lockbox file.

21.   (Previously Presented) The computer usable medium as recited in Claim 16, further comprising:

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calculating a weighted customer score;

calculating a weighted transaction score; and

determining a weighted total match score based on said weighted customer score and said weighted transaction score.

22.   (Original) The computer usable medium as recited in Claim 21 wherein said determining a total match score is further based on scoring strings and numbers.

23.   (Previously Presented) The computer usable medium as recited in Claim 22 wherein said scoring strings and numbers is performed by a process comprising a Levenshtein and Longest common substring fuzzy scoring heuristic.

24.   (Original) The computer usable medium as recited in Claim 21 wherein said calculating a weighted transaction score comprises:

calculating a weighted transaction number score;

calculating a weighted transaction amount score; and

determining said weighted transaction score based on said weighted transaction number score and said weighted transaction amount score.

25.   (Original) The computer usable medium as recited in Claim 21 wherein said calculating a weighted customer score comprises:

calculating a weighted customer name score;

calculating a weighted customer identity score;

calculating a weighted bank score; and

determining said weighted customer score based on said weighted customer name score, said weighted customer identity score, and said weighted bank score.

26.   (Original) The computer usable medium as recited in Claim 25 wherein said calculating a weighted customer name score comprises:

calculating a weighted customer string score;

calculating a weighted customer acronym score; and

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determining said weighted customer name score based on said weighted customer string score and said weighted customer acronym score.

27.   (Original) The computer usable medium as recited in Claim 16 wherein said method further comprises handling said recommendations.